

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**



The
Patent
Office

JP 105



INVESTOR IN PEOPLE

Patents Act 1977

Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.Q): G1A (AAMA, ACDL, ACDX) H5R(RAT, RTQ)

Int Cl (Ed.6): G01N(1/47, 1/49) (A61B5/00)

Other: Online: WPI, EPODOC, JAPIO

Documents considered to be relevant:

| Category | Identity of document and relevant passage | Relevant to claims |
|----------|---|-------------------------------|
| X | GB 2 075 668 A (Duke University) Figs.10-15 & pages 15-17 | 1,21 |
| Y | EP 0 864 857 A1 (Lucent Technologies) Whole document | 1,2,3, 21-26, 29,32,33. |
| Y,& | EP 0 828 162 A2 (Lucent Technologies) see WPI abstract | 1,2,3, 21-26, 29,32,33. |
| X | EP 0 828 143 A2 (Lucent Technologies) Whole document, Esp. Figs. 5A&B, col.11 lines 7-48. | 1-6,11,12 21-24, 27 |
| Y,& | US 5 710 430 (Lucent Technologies) see WPI abstract | 1,2,3, 21-26, 29,32,33. |
| Y,& | US 5 623 145 (Lucent Technologies) see WPI abstract | 1,2,3, 21-26, 29,32,33. |
| Y | WO88/01485 A1 (Singer) Whole document | 1,2,3, 21-26, 29,32,33. |

| | | | |
|---|---|---|--|
| X | Document indicating lack of novelty or inventive step | A | Document indicating technological background and/or state of the art. |
| Y | Document indicating lack of inventive step if combined with one or more other documents of same category. | P | Document published on or after the declared priority date but before the filing date of this invention. |
| & | Member of the same patent family | E | Patent document published on or after, but with priority date earlier than, the filing date of this application. |

National Application No

PCT/GB 00/02168

OF SUBJECT MATTER

G01N21/35

to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data bases consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, INSPEC, COMPENDEX, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to Claim No: |
|-----------|--|-----------------------|
| A | D.M. MITTLEMAN ET AL: "T-ray imaging" IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS., vol. 2, no. 3, September 1996 (1996-09), pages 679-692, XP000689828 IEEE SERVICE CENTER., US ISSN: 1077-260X cited in the application abstract page 680, right-hand column, line 7 - line 19 page 685, left-hand column, line 1 -right-hand column, line 11 figures 2,9 --- -/-- | 1,2,25, 26 |

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" documents referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"S" document member of the same patent family

Date of the actual completion of the international search

19 October 2000

Date of mailing of the international search report

26/10/2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Thomas, R.M.

INTERNATIONAL SEARCH REPORT

In: International Application No

PCT/GB 00/02168

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|----------|---|--------------------------------------|
| A | EP 0 828 143 A (LUCENT TECHNOLOGIES) 11 March 1998 (1998-03-11) column 1, line 14 - line 30 column 11, line 7 - line 44 figures 5A,5B --- | 1,25 |
| E | GB 2 347 835 A (TOSHIBA RESEARCH EUROPE) 13 September 2000 (2000-09-13) page 1, paragraph 1 page 38, paragraph 7 claim 39; figure 36 ----- | 1,2, 18-26, 30,32, 33,37-41 |

Form PCT/ISA/210 (continuation of second sheet) (July 1992)